

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Docket: 50848 Ser: 09/186,962

Applicant: Geoffrey B. Rhoads

Filed: November 5, 1998 Group: 2721

FOREIGN PATENT DOCUMENTS

	Number	Date	Country	Class	Sub		
Ab	EP058482	8/25/82	EPO	_			
26	EP372601	6/13/90	EPO)	RECEIVED		
MB	EP493091	12/27/90	EPO		TEUEIVED		
CDD	EP411232	2/1991	EPO		DEC 1 1 2000		
(A)	EP441702	8/1991	EPO		Technology Center 2600		
7	4 Center 2600						

OTHER DOCUMENTS

	OTHER DOCUMENTS
Category	Cheong, "Internet Agent, Spiders, Wanderers, Brokers, and Bots," New Riders Publishing, Indianapolis, IN, 1996, 413 pages
	Schneier, "Digital Signatures, Cryptographic Algorithms Can Create Nonforgeable Signatures for Electronic Documents, Making Them Valid Legal Instruments," Byte, Nov. 1993, pp. 309-312
	Wise, "The History of Copyright, Photographers' Rights Span Three Centuries" Photo>Electronic Imaging, vol. 37, No. 6, 1994
	"Access Control and Copyright Protection of Images, Conditional Access and Copyright Protection Based on the Use of Trusted Third Parties," 1995, 43 pages
	Choudhury, et al., "Copyright Protection for Electronic Publishing over Computer Networks," IEEE Network Magazine, Jun. 1994, 18 pages
	Roberts, "Picture Coding Using Pseudorandom Noise," IRE Trans. on Information Theory, Vol. 8, No. 2, Feb., 1962, pp. 145-154.
	Kassam, Signal Detection in Non-Gaussian Noise, Dowden & Culver, 1988, pp. 1-96.
	Komatsu et al., "Authentication System Using Concealed Image in Telematics," Memoirs of the School of Science & Engineering, Waseda Univ., No. 52, 1988, pp. 45-60.
_	Komatsu et al., "A Proposal on Digital Watermark in Document Image Communication and Its Application to Realizing a Signature," Electronics and Communications in Japan, Part 1, Vol. 73, No. 5, 1990, pp. 22-33.
	Machado, "Announcing Stego 1.0a2, The First Steganography Tool for the Macintosh," Internet reference, November 28, 1993, 3 pages.
V -	Möller, et al., "Rechnergestutzte Steganographie: Wie sie Funktioniert und warum folglich jede Reglementierung von Verschlusselung unsinnig ist," (with English abstract), Datenschutz und Datensicherung. 18/6 (1994) 318-326.
96	Hecht, "Embedded Data Glyph Technology for Hardcopy Digital Documents," SPIE Vol 2171, 2/94, pp. 341-352.
EXAMINER:	DATE: 12/19/00



12/1/00		•	DEC 0 5 2000 C98		Page 2 of 7	
INFORM	IATIO	ON D	ISCLOSURE STATEMENT	Docket: 50848	Ser: 09/186,962	
			APPLICANT	Applicant: Geoffrey B. Rhoads		
				Filed: November 5, 1998	Group: 2721	
			OTHER D	OCUMENTS		
Category			Brown, "S-Tools for Windows, March 6, 1994, 6 pages.	Version 1.00; What is Stegan	ography," Internet reference,	
			shaggy@phantom.com, "Hide a pages.			
			pages. Arachelian, "White Noise Storm	n," April 11, 1994, Internet ref	- UE 1: 1 .	
			"Access Control and Copyright and Copyright Protection for Im	Protection for Images, WorkF ages Need Evaluation," June,	Package 1: Access central 1995, 21 pages.	
		-	Luc, "Analysis of Spread Spectr Transmission," Radioengineerin	•	0	
			Macq, "Cryptology for Digital T 6, June 1995, pp. 944-957.	V Broadcasting," Proceeding	s of the IEEE, Vol. 83, No.	
	-		"Frequently Asked Questions A pages.	bout Digimarc Signature Tech	nnology, August 1, 1995, 9	
			Zhao et al., "Embedding Robust the International Congress on In Knowledge and New Technolog	tellectual Property Rights for ties (Vienna, Austria), August	Specialized Information, 21-25, 1995, 10 pages.	
	:	-	Bender et al, "Techniques for De 10/30/95, 45 pages.	ata Hiding," Draft Preprint, Pr	rivate Correspondence, dated	
			Aura, "Invisible Communication Laboratory, November 5, 1995,	· ·	echnology, Digital Systems	
\downarrow		,	Johhnson, "Steganography," De	cember 10, 1995, 32 pages.		
PB		·	Digimarc presentation at RSA C	Conference, January, 1996, 4 p	pages.	
				 		

EXAMINER:

DATE:

INFORMATION DISCLOSURE STATEMENT **BY APPLICANT**

Docket: 50848 Ser: 09/186,962

Applicant: Geoffrey B. Rhoads

Filed: November 5, 1998 Group: 2721

U.S.	PA	TENT	DOCI	JMENTS

DEC 0 5 2000

Init.*	Number	Date	Name	Class	Sub	Filed
110	2,630,525	3/3/53	Tomberlin et al.			
	3,562,420	2/9/71	Thompson	-		
	3,845,391	10/29/74	Crosby		R	FCE
	3,984,624	10/5/76	Waggener		Bre	CEIVE
_	4,237,484	12/2/80	Brown		DE C	1 1 2000
	4,238,849	12/9/80	Gassmann		^{rechno} log	v Center 260
	4,425,661	1/10/84	Moses et al.			-500 Section 260
	4,495,620	1/22/85	Steele et al.			
	4,644,582	2/17/87	Morishita et al.			
	4,677,466	1/30/87	Lert, Jr. et al.			
	4,697,209	9/29/87	Kiewit et al			
	5,083,224	1/21/92	Hoogendoorn et al.	-		•
	5,103,459	4/7/92	Gilhousen et al.			
	5,134,496	7/28/92	Schwab et al.			_
	5,146,457	9/8/92	Veldhuis et al.			
	5,278,400	1/11/94	Appel			
	5,315,448	5/24/94	Ryan			
	5,337,361	8/9/94	Wang et al.			
	5,374,976	12/20/94	Spannenburg			
	5,410,598	4/25/95	Shear			
	5,436,653	7/25/95	Ellis et al.			
	5,444,779	8/22/95	Daniele			
	5,449,895	9/12/95	Hecht et al.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	5,453,968	9/26/95	Veldhuis et al.			
	5,500,856	3/19/96	Nagase et al.			
	5,510,900	4/23/96	Shirochi et al.			
	5,513,011	4/30/96	Matsumoto et al.			
	5,513,260	4/30/96	Ryan			
Va	5,521,372	5/28/96	Hecht et al.			
1911	5,526,427	6/11/96	Thomas et al.			

DEC 0 5 2000

INFORMATION DISCLOSURE STATEMENT

Docket: 50848

Applicant: Geoffrey B. Rhoads

Ser: 09/186,962

BY APPLICANT

Filed: November 5 1998

Group: 2721

			Filed: November 5, 19	998	Group: 2721	
		U.S. PAT	ENT DOCUMENTS			
Init.*	Number	Date	Name	Class	Sub	Filed
40	5,530,759	6/25/96	Braudaway et al.	ed-	2	
	5,537,216	7/16/96	Yamashita et al.		C 1 2no	
	5,568,268	10/22/96	Tsuji et al.	700	Comor 200	ED
	5,574,787	11/12/96	Ryan	Chroto	200	2
	5,581,800	12/3/96	Fardeau et al.	- 3	Conter	
	5,612,943	3/18/97	Moses et al.		~60	b
	5,627,655	5/6/97	Okamoto et al.			
	5,649,054	7/15/97	Oomen et al.			
	5,652,626	7/29/97	Kawakami et al.)	
	5,659,613	8/19/97	Copeland et al.			
	5,663,766	9/2/97	Sizer, II		1	
	5,671,277	9/23/97	Ikenoue et al.			
	5,687,191	11/11/97	Lee et al.			
	5,689,587	11/18/97	Bender et al.			
	5,689,623	11/18/97	Pinard)	
	5,709,932	4/28/98	Glez et al.			
	5,712,920	1/27/98	Spille			
	5,719,937	2/17/98	Warren et al.			
	5,719,984	2/17/98	Yamagata et al.			
	5,727,092	3/10/98	Sandford, II et al.			
	5,737,025	4/7/98	Dougherty et al.			
	5,737,026	4/7/98	Lu et al.			
	5,739,864	4/14/98	Copeland			
	5,745,569	4/28/98	Moskowitz et al.			· · · · · · · · · · · · · · · · · · ·
	5,761,686	6/2/98	Bloomberg			
	5,764,763	6/9/98	Jensen et al.			
	5,764,770	6/9/98	Schipper et al.		1	
	5,774,452	6/30/98	Wolosewicz			
W	5,778,102	7/7/98	Sandford, II et al.			
	5.700.001	0/05/00	77.			

*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.

8/25/98

Kim et al.
DATE:

19/00

5,799,081

INFORMATION DISCLOSURE STATEMEN **BY APPLICANT**

Docket: 50848 Ser: 09/186,962 Applicant: Geoffrey B. Rhoads

Filed: November 5, 1998 Group: 2721

nit.*	Number	Date	Name	Class	Sub	Filed
40	5,799,082	8/25/98	Murphy et al.	_		
(9)	5,819,289	10/6/98	Sanford, II et al.		Ar.	
	5,822,360	10/13/98	Lee et al.			EIVED
	5,822,432	10/13/98	Moskowitz et al.		DEE 1	7.0
	5,826,227	10/20/98	Jayant	∠6 C	nolon	1 2000
	5,828,325	10/27/98	Wolosewicz et al.		3) CO	Tter 2600
	5,850,249	12/15/98	Massetti et al.			- 500
	5,857,038	1/5/99	Owada et al.			
	5,859,920	1/12/99	Daly et al.			
	5,862,218	1/19/99	Steinberg			
	5,862,260	1/19/99	Rhoads			
	5,878,010	3/2/99	Okamoto et al.	17		
	5,889,868	3/30/99	Moskowitz et al.			
	5,893,067	4/6/99	Bender et al.			
	5,905,505	5/18/99	Lesk			
	5,905,819	5/18/99	Daly		7	
	5,907,443	5/25/99	Hirata		1	
	5,929,920	7/27/99	Sizer, II			
	5,930,369	7/27/99	Cox et al.			
	5,937,000	8/10/99	Lee et al.			
	5,960,151	9/28/99	Takahashi)	
	5,970,140	10/19/99	Sandford, II et al.			
	5,987,459	11/16/99	Swanson et al.			
	5,991,500	11/23/99	Kanota et al.			
~ O. O	6,000,621	12/14/99	Hecht et al.			
P16)	6,086,706	7/11/00	Brassil et al.			

DEC 0 5 2000 H

INFORMATION DISCLOSURE STATEMENT

Docket: 50848

Filed: November 5, 1998

Ser: 09/186,962

BY APPLICANT

Applicant: Geoffrey B. Rhoads

Group: 2721

FOREIGN PATENT DOCU	JME	NTS
---------------------	-----	-----

	Number	Date	Country	Class	Sub
46	DE2943436	5/7/81	Germany		BECEIVED
160	EP0642060	3/8/95	EPO		CIVED
M	EP0651554	5/3/95	EPO		DEC 1 1 2000
916	WO9731440	8/28/97	PCT		echnology Center 2600
110	WO9746012	12/4/97	PCT		3) - 11101 5000

	OTHER DOCUMENTS
<u> </u>	
Category	Szepanski, "Compatibility Problems in Add-On Data Transmission for TV-Channels," 2d Symp. and Tech. Exh. On Electromagnetic Compatibility, June 28, 1977, pp. 263-268.
	Szepanski, "Optimization of Add-On Signals by Means of a Modified Training Algorithm for Linear Classifiers," IEEE Int'l Symp. On Info. Theory, October 10, 1977, pp. 27-28.
	Szepanski, "Binary Data Transmission Over Video Channels with Very Low Amplitude Data Signals," Fernseh- und Kino-Technik, Vol.32, No.7, July, 1978, pp. 251-256. (German text with full English translation.)
	Szepanski, Additive Binary Data Transmission for Video Signals," Conference of the Communications Engineering Society, 1980, NTG Technical Reports, volume 74, pp. 343-351. (German text with full English translation.)
	Franz et al., "Computer Based Steganography: How It Works and Why Therefore Any Restrictions on Cryptography are Nonsense, at Best," Information Hiding, First Int. Workshop Proc, May 30-June 1, 1996, pp. 7-21, (a counterpart was published in German by Steffen Moller et al in 1994).
	Proudler, Graeme J., "Authentication and Display of Signatures on Electronic Documents," 2244 Research Disclosure, February, 1994, No. 358, Emsworth, GB, 1 page.
	Oomen, A. et al, "A Variable-Bit Rate Buried-Data Channel for Compact Disc," Journal of the Audio Engineering Society Vol. 43, No. 1-2, pp. 23-28, Jan. – Feb., 1995
	Bender, Techniques for Data Hiding," Proc. SPIE, Vo. 2420, February 9, 1995, pp. 164-173
V	Bender et al., "Techniques for Data Hiding," Massachusetts Institute of Technology, Media Laboratory, Draft Preprint, April 13, 1995, 10 pages.
M	Matsui et al., "Video-Steganography: How to Secretly Embed a Signature in a Picture," IMA Intellectual Property Project Proceedings, January 1994, Vol. 1, Issue 1, pp. 187- 205.
EXAMINER:	DATE: 12/19/00



INFORMATION DISCL	OSURÉSTATEM	EN
INFORMATION DISCLARY APPL	ICANT BADEN	AEU

Docket: 50848 Ser: 09/186,962

Applicant: Geoffrey B. Rhoads

Filed: November 5, 1998 Group: 2721

	BY APPLICANT	Applicant: Geoffrey B. Knoads		
		Filed: November 5, 1998	Group: 2721	
	OTHER DO	OCUMENTS		
Category	JPEG Group's JPEG Software (r /PUB/CYPHERPUNKS/APPLIG 6/7/93, 2 pages.	**		
	Caronni, "Assuring Ownership F of 'Reliable IT Systems,' VIS '95 Publishing Company, Germany, ETH (Zurich) Technical Report, Maschinenlesbaren Daten," 8/93 Quisquater, J., "Access Control and Copyright Protection Based	i, HH. Brüggemann and W. Gerl 1995, 6/14/94, 10 pages. (Origin "Ermitteln Unauthorisierter Ver and COpyright Protection for Im	nardt-Häckl (Ed.), Vieweg nally published as an rteiler von	
	Gerzon, M.A., et al, "A High-Ra Audio Engineering Society, Vol	ate Buried-Data Channel for Auc	lio CD," Journal of the	
	Aura, "Practical Invisibility in D Workshop Proc. May 30-June 1,	O	ation Hiding, First Int.	
	Anderson, "Stretching the Limit International Workshop Proc., M		n Hiding, First	
	Stone, "Analysis of Attacks on I 17 1996, pp. 1-27.			
	Zhao, "A WWW Service to Emb the European Conf. on Multimed Neuve, Belgium, May 1996, 14	dia Applications, Services and T		
	Braudaway et al., "Protecting Pu Watermark," SPIE Vol. 2659, Fe	ebruary 1, 1996, pp. 126-133.		
	Tirkel et al., "A Two-Dimension 6-8, 1995. 10 pages.			
	Cha et al., "A Solution to the On Computer Security Applications	Conf., December 11, 1995, pp.	108-112.	
	Tirkel, et al "Image Watermarkin ISSSTA'96, Mainz, Germany, S			
\bigvee	Bruckstein, A.M.; Richardson, T watermarking method, Circuits 1998. This paper includes an apaccording to the authors of the p	s, Systems, and Signal Processin pendix containing an internal mo	g vol.17, no.3 p. 361-89, emo of Bell Labs, which	
196	Horak, "From 'Steganographia' Multimedia Security," Septembe		"Communications and	
EXAMINER:	De a Pana DA	TE: 12/9/00 F	RECEIVED	
	considered, whether or not in conformance with e if not in conformance and not considered. Ser	MPEP 60; (To	EU 1 1 2000	